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TITLE: PHARMACEUTICAL COMPOSITION FOR INJECTION

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INVENTOR-INFORMATION:

NAME

COUNTRY

HORI, RYOHEI

OKUMURA, KATSUHIKO

KOMADA, FUSAO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

NIPPON SHINYAKU CO LTD

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APPL-DATE: February 21, 1984

US-CL-CURRENT: 514/3

INT-CL (IPC): A61K 37/26; A61K 9/08; A61K 37/12

ABSTRACT:

PURPOSE: To provide the titled composition effective to suppress the decomposition of the injected peptide hormone in high efficiency, to promote the drug activity, and to mitigate the gain of the patient caused by the continuous administration, by adding a collagen derivative to a peptide hormone such as insulin.

CONSTITUTION: A peptide hormone, especially insulin, is incorporated with a collagen derivative, especially atherocollagen, to obtain the objective pharmaceutical composition for injection. Insulin useful as a remedy for diabetes decomposes extremely rapidly under the skin and in blood. It has been found that collagenase plays the role of the lyase of insulin, and that the simultaneous administration of collagen which is a protein sensitive to collagenase, preferably atherocollagen having no species specificity, is effective to suppress the decomposition of insulin and to promote the drug action. The present invention can be applied to other peptide drug preparation (e.g. calcitonin, secretin, etc.).

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USPT,PGPB,JPAB,EPAB,DWPI	(EO) same (phospholipids or lecithin) same (ethanol)	1	<u>L33</u>
USPT,PGPB,JPAB,EPAB,DWPI	((ethyl adj1 oleate)or (EO)) same (phospholipids or lecithin) same (ethanol)	437	<u>L32</u>
USPT,PGPB,JPAB,EPAB,DWPI	(ethyl adj1 oleate) same (phospholipids) same (ethanol)	1	<u>L31</u>
USPT,PGPB,JPAB,EPAB,DWPI	129 and (dosage adj1 form)	395	<u>L30</u>
USPT,PGPB,JPAB,EPAB,DWPI	12 and inject\$	428	<u>L29</u>
USPT,PGPB,JPAB,EPAB,DWPI	127 and inject\$	855	<u>L28</u>
USPT,PGPB,JPAB,EPAB,DWPI	116 and (dosage adj1 form)	885	<u>L27</u>
USPT,PGPB,JPAB,EPAB,DWPI	5047396.pn.	3	<u>L26</u>
USPT,PGPB,JPAB,EPAB,DWPI	5766629.pn. and (micro\$)	0	<u>L25</u>
USPT,PGPB,JPAB,EPAB,DWPI	5766629.pn. and (micrometer)	0	<u>L24</u>
USPT,PGPB,JPAB,EPAB,DWPI	5766629.pn. and (particle adj1 size)	0	<u>L23</u>
USPT,PGPB,JPAB,EPAB,DWPI	116 and (dosage adj1 formulation\$)	31	<u>L22</u>
USPT,PGPB,JPAB,EPAB,DWPI	120 and liposome	52	<u>L21</u>

USPT,PGPB,JPAB,EPAB,DWPI	119 and (cyclosporin\$ or insulin or acyclovir or camptothecin)	59	L20
USPT,PGPB,JPAB,EPAB,DWPI	118 and (microemulsion)	254	L19
USPT,PGPB,JPAB,EPAB,DWPI	117 and (injection or oral)	722	L18
USPT,PGPB,JPAB,EPAB,DWPI	116 and (antifungal or antiviral or insulin or hormones)	741	L17
USPT,PGPB,JPAB,EPAB,DWPI	(ethyl adj1 oleate) and (phospholipids or lecithin) and (ethanol)	1265	L16
USPT,PGPB,JPAB,EPAB,DWPI	4568343.pn.	3	L15
USPT,PGPB,JPAB,EPAB,DWPI	113 and (mm or micrometers)	196	L14
USPT,PGPB,JPAB,EPAB,DWPI	112 and (microemulsion)	245	L13
USPT,PGPB,JPAB,EPAB,DWPI	12 and (pharmaceutical)	432	L12
USPT,PGPB,JPAB,EPAB,DWPI	19 and (particle adj1 size)	401	L11
USPT,PGPB,JPAB,EPAB,DWPI	19 and (micrometers)	48	L10
USPT,PGPB,JPAB,EPAB,DWPI	16 and (antifungal or antiviral or insulin or hormones)	404	L9
USPT,PGPB,JPAB,EPAB,DWPI	17 and (micron\$ or micrometer\$)	31	L8
USPT,PGPB,JPAB,EPAB,DWPI	16 and (cyclosporin\$ or insulin or acyclovir or camptothecin)	83	L7
USPT,PGPB,JPAB,EPAB,DWPI	15 and (oral or parenteral or injection)	419	L6
USPT,PGPB,JPAB,EPAB,DWPI	12 and ((self adj1 emulsify\$) or (emulsify\$))	420	L5
USPT,PGPB,JPAB,EPAB,DWPI	12 and ((self adj1 emulsify\$) or emulsion or (emulsify\$))	432	L4
USPT,PGPB,JPAB,EPAB,DWPI	12 and (self adj1 emulsify\$)	0	L3
USPT,PGPB,JPAB,EPAB,DWPI	(ethyl adj1 oleate) same (phospholipids or lecithin) same (ethanol)	436	L2
USPT,PGPB,JPAB,EPAB,DWPI	(ehtyl adj1 oleate) same (phospholipids or lecithin) same (ethanol)	0	L1